B1

SEQUENCE LISTING

<110> Soo Young Lee
Yongwon Choi

<120> Signal Transducer for the TNF Receptor Super Family and Uses Thereof

<130> 600-1-198CIP1CON

<140> 09/716,536
<141> 2000-11-20

<150> 60/042,293
<151> 1997-04-01

<150> 60/042,747
<151> 1997-04-07

<150> 08/834,903
<151> 1997-04-07

<160> 16

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 469
<212> PRT
<213> Homo sapiens

<400> 1

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 1               5                  10                  15
Ser Arg Asp Val Ala Ala Ile His Cys Gly His Thr Phe His Leu Gln
            20                  25                  30
Cys Leu Ile Gln Ser Phe Glu Thr Ala Pro Ser Arg Thr Cys Pro Gln
        35                  40                  45
Cys Arg Ile Gln Val Gly Lys Arg Thr Ile Ile Asn Lys Leu Phe Phe
    50                  55                  60
Asp Leu Ala Gln Glu Glu Glu Asn Val Leu Asp Arg Glu Phe Leu Lys
65                  70                  75                  80
Asn Glu Leu Asp Asn Val Arg Ala Gln Leu Ser Gln Lys Asp Lys Glu
                85                  90                  95
Lys Arg Asp Ser Gln Val Ile Ile Asp Thr Leu Arg Asp Thr Leu Glu
            100                 105                 110
Glu Arg Asn Ala Thr Val Val Ser Leu Gln Gln Ala Leu Gly Lys Ala
        115                 120                 125
Glu Met Leu Cys Ser Thr Leu Lys Lys Gln Met Lys Tyr Leu Glu Gln
    130                 135                 140
Gln Gln Asp Glu Thr Lys Gln Ala Gln Glu Glu Ala Gly Arg Leu Arg
145                 150                 155                 160
Ser Lys Met Lys Thr Met Glu Gln Ile Glu Leu Leu Leu Gln Ser Gln
                165                 170                 175
Leu Pro Glu Val Glu Glu Met Ile Arg Asp Met Gly Val Gly Gln Ser
```

```
            180                 185                 190
Ala Val Glu Gln Leu Ala Val Tyr Cys Val Ser Leu Lys Lys Glu Tyr
        195                 200                 205
Glu Asn Leu Lys Glu Ala Arg Lys Ala Ser Gly Glu Val Ala Asp Lys
    210                 215                 220
Leu Arg Lys Asp Leu Phe Ser Ser Arg Ser Lys Leu Gln Thr Val Tyr
225                 230                 235                 240
Ser Glu Leu Asp Gln Ala Lys Leu Glu Leu Lys Ser Ala Gln Lys Asp
                245                 250                 255
Leu Gln Ser Ala Asp Lys Glu Ile Met Ser Leu Lys Lys Lys Leu Thr
            260                 265                 270
Met Leu Gln Glu Thr Leu Asn Leu Pro Pro Val Ala Ser Glu Thr Val
        275                 280                 285
Asp Arg Leu Val Leu Glu Ser Pro Ala Pro Val Glu Val Asn Leu Lys
    290                 295                 300
Leu Arg Arg Pro Ser Phe Arg Asp Asp Ile Asp Leu Asn Ala Thr Phe
305                 310                 315                 320
Asp Val Asp Thr Pro Pro Ala Arg Pro Ser Ser Ser Gln His Gly Tyr
                325                 330                 335
Tyr Glu Lys Leu Cys Leu Glu Lys Ser His Ser Pro Ile Gln Asp Val
            340                 345                 350
Pro Lys Lys Ile Cys Lys Gly Pro Arg Lys Glu Ser Gln Leu Ser Leu
        355                 360                 365
Gly Gly Gln Ser Cys Ala Gly Glu Pro Asp Glu Glu Leu Val Gly Ala
    370                 375                 380
Phe Pro Ile Phe Val Arg Asn Ala Ile Leu Gly Gln Lys Gln Pro Lys
385                 390                 395                 400
Arg Pro Arg Ser Glu Ser Ser Cys Ser Lys Asp Val Val Arg Thr Gly
                405                 410                 415
Phe Asp Gly Leu Gly Gly Arg Thr Lys Phe Ile Gln Pro Thr Asp Thr
            420                 425                 430
Val Met Ile Arg Pro Leu Pro Val Lys Pro Lys Thr Lys Val Lys Gln
        435                 440                 445
Arg Val Arg Val Lys Thr Val Pro Ser Leu Phe Gln Ala Lys Leu Asp
    450                 455                 460
Thr Phe Leu Trp Ser
465
```

<210> 2
<211> 470
<212> PRT
<213> Mus musculus

<400> 2

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Met Pro Ile Leu Ser Leu Cys Thr Ile Cys Ser Asp Phe Phe Asp His
 1               5                  10                  15
Ser Arg Asp Val Ala Ala Ile His Cys Gly His Thr Phe His Leu Gln
            20                  25                  30
Cys Leu Ile Gln Trp Phe Glu Thr Ala Pro Ser Arg Thr Cys Pro Gln
        35                  40                  45
Cys Arg Ile Gln Val Gly Lys Lys Thr Ile Ile Asn Lys Leu Phe Phe
    50                  55                  60
Asp Leu Ala Gln Glu Glu Glu Asn Val Leu Asp Ala Glu Phe Leu Lys
65                  70                  75                  80
Asn Glu Leu Asp Ser Val Lys Ala Gln Leu Ser Gln Lys Asp Arg Glu
                85                  90                  95
```

```
Lys Arg Asp Ser Gln Ala Ile Ile Asp Thr Leu Arg Asp Thr Leu Glu
            100                 105                 110
Glu Arg Asn Ala Thr Val Glu Ser Leu Gln Asn Ala Leu Asn Lys Ala
        115                 120                 125
Glu Met Leu Cys Ser Thr Leu Lys Lys Gln Met Lys Phe Leu Glu Gln
    130                 135                 140
Arg Gln Asp Glu Thr Lys Gln Ala Arg Glu Glu Ala His Arg Leu Lys
145                 150                 155                 160
Cys Lys Met Lys Thr Met Glu Gln Ile Glu Leu Leu Leu Gln Ser Gln
                165                 170                 175
Arg Ser Glu Val Glu Glu Met Ile Arg Asp Met Gly Val Gly Gln Ser
            180                 185                 190
Ala Val Glu Gln Leu Ala Val Tyr Cys Val Ser Leu Lys Lys Glu Tyr
        195                 200                 205
Glu Asn Leu Lys Glu Ala Arg Lys Ala Thr Gly Glu Leu Ala Asp Arg
    210                 215                 220
Leu Lys Lys Asp Leu Val Ser Ser Arg Ser Lys Leu Lys Thr Leu Asn
225                 230                 235                 240
Thr Glu Leu Asp Gln Ala Lys Leu Glu Leu Arg Ser Ala Gln Lys Asp
                245                 250                 255
Leu Gln Ser Ala Asp Gln Glu Ile Thr Ser Leu Arg Lys Lys Ser Asp
            260                 265                 270
Asp Pro Pro Gly Asn Leu Glu Pro Ala Ser Ala Thr Asn Glu Thr Val
        275                 280                 285
Ser Arg Leu Val Phe Glu Ser Pro Ala Pro Val Glu Met Met Asn Pro
    290                 295                 300
Arg Leu His Gln Pro Pro Phe Gly Asp Glu Ile Asp Leu Asn Thr Thr
305                 310                 315                 320
Phe Asp Val Asn Thr Pro Pro Thr Gln Thr Ser Gly Ser Gln His Cys
                325                 330                 335
Leu Pro Lys Lys Leu Cys Leu Glu Arg Ala Arg Ser Pro Met Gln Asn
            340                 345                 350
Val Leu Lys Lys Val His Lys Val Ser Lys Pro Glu Ser Gln Leu Ser
        355                 360                 365
Leu Gly Gly Gln Arg Cys Val Gly Glu Leu Asp Glu Glu Leu Ala Gly
    370                 375                 380
Ala Phe Pro Leu Phe Ile Arg Asn Ala Val Leu Gly Gln Lys Gln Pro
385                 390                 395                 400
Asn Arg Thr Thr Ala Glu Ser Arg Ser Ser Thr Asp Val Val Arg Ile
                405                 410                 415
Gly Phe Asp Gly Leu Gly Gly Arg Thr Lys Phe Ile Gln Pro Arg Asp
            420                 425                 430
Thr Thr Ile Ile Arg Pro Val Pro Val Lys Ser Lys Ala Lys Ser Lys
        435                 440                 445
Gln Lys Val Arg Ile Lys Thr Val Ser Ser Ala Ser Gln Pro Lys Leu
    450                 455                 460
Asp Thr Phe Leu Cys Gln
465                 470
```

<210> 3
<211> 220
<212> PRT
<213> Homo sapiens

<400> 3
Arg Thr Ile Ile Asn Lys Leu Phe Phe Asp Leu Ala Gln Glu Glu Glu

```
 1               5                  10                  15
Asn Val Leu Asp Arg Glu Phe Leu Lys Asn Glu Leu Asp Asn Val Arg
            20                  25                  30
Ala Gln Leu Ser Gln Lys Asp Lys Glu Lys Arg Asp Ser Gln Val Ile
        35                  40                  45
Ile Asp Thr Leu Arg Asp Thr Leu Glu Glu Arg Asn Ala Thr Val Val
    50                  55                  60
Ser Leu Gln Gln Ala Leu Gly Lys Ala Glu Met Leu Cys Ser Thr Leu
65                  70                  75                  80
Lys Lys Gln Met Lys Tyr Leu Glu Gln Gln Gln Asp Glu Thr Lys Gln
                85                  90                  95
Ala Gln Glu Glu Ala Gly Arg Leu Arg Ser Lys Met Lys Thr Met Glu
            100                 105                 110
Gln Ile Glu Leu Leu Leu Gln Ser Gln Leu Pro Glu Val Glu Glu Met
        115                 120                 125
Ile Arg Asp Met Gly Val Gly Gln Ser Ala Val Glu Gln Leu Ala Val
    130                 135                 140
Tyr Cys Val Ser Leu Lys Lys Glu Tyr Glu Asn Leu Lys Glu Ala Arg
145                 150                 155                 160
Lys Ala Ser Gly Glu Val Ala Asp Lys Leu Arg Lys Asp Leu Phe Ser
                165                 170                 175
Ser Arg Ser Lys Leu Gln Thr Val Tyr Ser Glu Leu Asp Gln Ala Lys
            180                 185                 190
Leu Glu Leu Lys Ser Ala Gln Lys Asp Leu Gln Ser Ala Asp Lys Glu
        195                 200                 205
Ile Met Ser Leu Lys Lys Lys Leu Thr Met Leu Gln
    210                 215                 220
```

<210> 4
<211> 220
<212> PRT
<213> Mus musculus

<400> 4

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Lys Thr Ile Ile Asn Lys Leu Phe Phe Asp Leu Ala Gln Glu Glu Glu
 1               5                  10                  15
Asn Val Leu Asp Ala Glu Phe Leu Lys Asn Glu Leu Asp Ser Val Lys
            20                  25                  30
Ala Gln Leu Ser Gln Lys Asp Arg Glu Lys Arg Asp Ser Gln Ala Ile
        35                  40                  45
Ile Asp Thr Leu Arg Asp Thr Leu Glu Glu Arg Asn Ala Thr Val Glu
    50                  55                  60
Ser Leu Gln Asn Ala Leu Asn Lys Ala Glu Met Leu Cys Ser Thr Leu
65                  70                  75                  80
Lys Lys Gln Met Lys Phe Leu Glu Gln Arg Gln Asp Glu Thr Lys Gln
                85                  90                  95
Ala Arg Glu Glu Ala His Arg Leu Lys Cys Lys Met Lys Thr Met Glu
            100                 105                 110
Gln Ile Glu Leu Leu Leu Gln Ser Gln Arg Ser Glu Val Glu Glu Met
        115                 120                 125
Ile Arg Asp Met Gly Val Gly Gln Ser Ala Val Glu Gln Leu Ala Val
    130                 135                 140
Tyr Cys Val Ser Leu Lys Lys Glu Tyr Glu Asn Leu Lys Glu Ala Arg
145                 150                 155                 160
Lys Ala Thr Gly Glu Leu Ala Asp Arg Leu Lys Lys Asp Leu Val Ser
                165                 170                 175
```

```
Ser Arg Ser Lys Leu Lys Thr Leu Asn Thr Glu Leu Asp Gln Ala Lys
            180                 185                 190
Leu Glu Leu Arg Ser Ala Gln Lys Asp Leu Gln Ser Ala Asp Gln Glu
        195                 200                 205
Ile Thr Ser Leu Arg Lys Lys Ser Asp Asp Pro Pro
    210                 215                 220
```

<210> 5
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5

```
Arg Ala Leu Cys Thr Ile Cys Ser Asp Phe Phe Asp His Ser Arg Asp
 1               5                  10                  15
Val Ala Ala Met Asp Cys Gly His Thr Phe His Leu Gln Cys Leu Ile
            20                  25                  30
Gln Ser Phe Glu Thr Ala Pro Ser Arg Thr Cys Pro Gln Cys Arg Ile
        35                  40                  45
Gln Val Gly
    50
```

<210> 6
<211> 51
<212> PRT
<213> Mus musculus

<400> 6

```
Leu Ser Leu Cys Thr Ile Cys Ser Asp Phe Phe Asp His Ser Arg Asp
 1               5                  10                  15
Val Ala Ala Ile His Cys Gly His Thr Phe His Leu Gln Cys Leu Ile
            20                  25                  30
Gln Trp Phe Glu Thr Ala Pro Ser Arg Thr Cys Pro Gln Cys Arg Ile
        35                  40                  45
Gln Val Gly
    50
```

<210> 7
<211> 2007
<212> DNA
<213> Homo sapiens

<400> 7

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tgcactatct gctccgactt cttcgatcac tcccgcgacg tggccgccat ccactgcggc 180
cacaccttcc acttgcagtg cctaattcag tcctttgaga cagcaccaag tcggacctgc 240
ccacagtgcc gaatccaggt tggcaaaaga accattatca ataagctctt ctttgatctt 300
gcccaggagg aggagaatgt cttggatcga gaattcttaa agaatgaact ggacaatgtc 360
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ctgcgggata cgctggaaga acgcaatgct actgtggtat ctctgcagca ggccttgggc 480
aaggccgaga tgctgtgctc cacactgaaa aagcagatga agtacttaga gcagcagcag 540
gatgagacca aacaagcaca agaggaggcg ggccggctca ggagcaagat gaagaccatg 600
gagcagattg agcttctact ccagagccag ctccctgagg tggaggagat gatccgagac 660
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atgggtgtgg gacagtcagc ggtggaacag ctggctgtgt actgtgtgtc tctcaagaaa 720
gagtacgaga atctaaaaga ggcacggaag gcctcagggg aggtggctga caagctgagg 780
aaggatttgt tttcctccag aagcaagttg cagacagtct actctgaatt ggatcaggcc 840
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<210> 8
<211> 1975
<212> DNA
<213> Mus musculus

<400> 8
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ctctctctgt gcactatctg ctccgacttc ttcgatcact cccgtgacgt ggctgccatc 180
cactgtggcc acacttttca tctgcaatgc ctaatccagt ggtttgagac agcaccaagt 240
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gacagcgtca aagctcagct ttcccagaaa gacagggaga aacgggacag ccaggccatt 420
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gccttaaaca aggcagagat gctgtgttcc accctgaaaa aacagatgaa gttcctggag 540
cagcggcagg atgagaccaa acaagctcgg gaggaggccc accgactcaa gtgcaagatg 600
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ctgcctccag cttattgctt gaaattatgg ggtgaggtgg tgatagggaa aggttgggga 1920
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<210> 9
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 9
Lys Tyr Leu Cys Ser Ala Cys Lys Asn Ile Leu Arg Arg Pro Phe Gln
1 5 10 15
Ala Gln Cys Gly His Arg Tyr Cys Ser Phe Cys Leu Thr Ser Ile Leu
20 25 30
Ser Ser Gly Pro Gln Asn Cys Ala Ala Cys Val Tyr Glu Gly Leu
35 40 45

<210> 10
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 10
Lys Tyr Lys Cys Glu Lys Cys Arg Leu Val Leu Cys Asn Pro Lys Gln
1 5 10 15
Thr Glu Cys Gly His Arg Phe Cys Glu Ser Cys Met Ala Ala Leu Leu
20 25 30
Ser Ser Ser Ser Pro Lys Cys Thr Ala Cys Gln Glu Ser Ile
35 40 45

<210> 11
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 11
Glu Arg Thr Cys Lys Val Cys Met Asp Arg Glu Val Ser Ile Val Phe
1 5 10 15
Ile Pro Cys Gly His Leu Val Val Cys Gln Glu Cys Ala Pro Ser Leu
20 25 30
Arg Lys Cys Pro Ile Cys Gly Arg Gly Thr Ile
35 40

<210> 12
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 12
Phe Gln Leu Cys Lys Ile Cys Ala Glu Asn Asp Lys Asp Val Lys Ile
 1   5   10   15
Glu Pro Cys Gly His Leu Met Cys Thr Ser Cys Leu Thr Ser Trp Gln
            20   25   30
Glu Ser Glu Gly Gln Gly Cys Pro Phe Cys Arg Cys Glu Ile Lys
        35   40   45

<210> 13
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 13
Glu Leu Met Cys Pro Ile Cys Leu Asp Met Leu Lys Asn Thr Met Thr
 1   5   10   15
Thr Lys Glu Cys Leu His Arg Phe Cys Ser Asp Cys Ile Val Thr Ala
            20   25   30
Leu Arg Ser Gly Asn Lys Glu Cys Pro Thr Cys Arg Lys Lys Leu Val
        35   40   45

<210> 14
<211> 47
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 14
Glu Val Thr Cys Pro Ile Cys Leu Asp Pro Phe Val Glu Pro Val Ser
 1   5   10   15
Ile Glu Cys Gly His Ser Phe Cys Gln Glu Cys Ile Ser Gln Val Gly
            20   25   30
Lys Gly Gly Gly Ser Val Cys Ala Val Cys Arg Gln Arg Phe Leu
        35   40   45

<210> 15
<211> 50
<212> PRT
<213> Artificial Sequence

Cont B1

<220>
<223> fragment

<400> 15
Tyr Asp Val Cys Ala Ile Cys Leu Asp Glu Tyr Glu Asp Gly Asp Lys
1 5 10 15
Leu Arg Ile Leu Pro Cys Ser His Ala Tyr His Cys Lys Cys Val Asp
20 25 30
Pro Trp Leu Thr Lys Thr Lys Lys Thr Cys Pro Val Cys Lys Gln Lys
35 40 45
Val Val
50

<210> 16
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> fragment

<400> 16
Ser Ala Glu Cys Thr Ile Cys Tyr Glu Asn Pro Ile Asp Ser Val Leu
1 5 10 15
Tyr Met Cys Gly His Met Cys Met Cys Tyr Asp Cys Ala Ile Glu Gln
20 25 30
Trp Arg Gly Val Gly Gly Gly Gln Cys Pro Leu Cys Arg Ala Val Ile
35 40 45
Arg